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STANDARD DHIA

OWNER SAMPLER

WEIGH-A-DAY-A-MONTH

AGRICULTURAL RESEARCH SERVICE, U. S. DEPARTMENT OF AGRICULTURE

Dairy-Herd-Improvement Letter

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STANDARD DHIA COWS EXCEED THE 12,000-POUND LEVEL OF MILK PRODUCTION

In 1965-66, ^{1/} DHIA cows on Standard test produced an average of 12,127 pounds of milk and 462 pounds of butterfat. This record was made by 1,852,533 cows in 34,886 herds that averaged 53.1 cows per herd. It is an increase of 151 pounds of milk, 5 pounds of butterfat, and 1.9 cows per herd over 1964-65.

STANDARD DHIA COWS EXCEED ALL OTHER COWS BY 4,668 POUNDS OF MILK

The importance of DHIA recordkeeping continues to be increasingly evident. In 1965-66, Standard DHIA cows were superior in milk yield to all other cows by 63 percent, or 4,668 pounds. With milk in Standard DHIA herds valued at \$4.70 per hundredweight, this superiority amounts to a yearly gross income advantage of \$219 per cow or \$10,950 for a 50-cow herd.

During the 3-year period since 1963, yearly increases in milk yield per cow have been 280 pounds in Standard DHIA and 196 pounds for all other cows. Thus, in addition to the 4,668-pound superiority in milk yield in 1965-66, the rate of increase has been 43 percent more rapid for Standard DHIA cows than for other cows since 1963. These statistics clearly

^{1/} Double years refer to a testing year--the period that begins May 1 in the year stated first and ends April 30 in the year stated last. Unless stated otherwise, single years refer to a calendar year.

demonstrate the importance and results of participating in DHIA recordkeeping. A summary of the production performance of cows in Standard DHIA and all other herds in the United States is shown in table 1.

STANDARD DHIA SUMMARIES 1965-66

Table 2 is a 10-year summary of the Standard DHIA cow-year averages for herds reporting complete information. In 1965-66, 1,260,621 cows in 28,013 herds with complete reports averaged 11,885 pounds of milk and 453 pounds of butterfat. They were fed an average of 4,500 pounds of concentrate, 10,800 pounds of succulent forage, and 3,600 pounds of dry forage. They produced milk valued at \$559 (\$4.70 per cwt.), were fed at an estimated cost of \$256, and returned an estimated \$303 over feed cost. A summary of the 10-year change is also shown in table 2.

Summaries of DHIA herd statistics for 1965-66 are shown in tables 3 through 8. Cow-year averages for each State reporting production data are shown in table 3 and for each State having complete reports, in table 4.

Stratifications of herd averages by level of butterfat production, concentrates fed, and feed cost per hundredweight of milk are given in tables 5, 6, and 7, respectively. The trends apparent in these tabulations should be interpreted with caution because of the possible confounding effects resulting from disproportionate representation of breeds, milk prices, and feeding systems and costs.

Within-breed stratifications of Standard DHIA herd averages by milk yield are shown in table 8. Breeds are tabulated separately to reduce the complicating effect of breed-to-breed differences in production and in feed and milk prices. Such tabulations are useful in establishing guidelines for production efficiency, especially within breeds.

A rule of thumb in dairying is that profitable production is realized only if income is more than double the cost of feed. For average United States conditions, the levels of milk production at or below which profits are not expected are shown in table 9.

Only 4.9 percent of the Standard DHIA herds produced less than the milk levels indicated in Table 9. Approximately

1,795 herd owners (6.4 percent) reported income over feed cost of less than \$200 per cow, and approximately 13,820 owners (49.3 percent) reported income over feed cost of \$300 or more. However, if it is assumed that milk production levels of 7,000 pounds per cow are minimal for profit among herds at large, approximately half the cows other than those on Standard DHIA are marginal or submarginal producers.

In the Holstein herds summarized in table 8, estimated income over feed cost increased approximately \$31 per cow for each 1,000-pound increase in milk production. As herd yields increased from 8,000 to 17,000 pounds of milk, feed costs increased 67 percent, feed cost per hundredweight of milk decreased 20 percent, and income over feed cost increased 168 percent. Assuming "net profit" equals value of product minus twice feed cost, income increased sharply as production level increased. At milk production intervals of 1,000 pounds for herds averaging 10,000 to 19,000 pounds, the estimated net profit per cow was 5, 19, 36, 54, 70, 86, 108, 122, 135, and 181 dollars, respectively. Changes and general trends were similar for each of the other breeds as well.

Although 12 less Ayrshire herds were tabulated this year than last, 103 herds produced 11,500 pounds of milk or more compared with 92 herds a year ago; 9 herds produced 13,500 pounds or more, whereas only 8 herds did so a year ago. Guernsey herds at or above the 11,500-pound level of production numbered 93 compared with 85 a year ago. Holstein herds at the 15,500-pound level or above increased 180 over last year. A total of 90 Holstein herds exceeded 17,499 pounds of milk. Jersey herds producing 9,500 pounds and above numbered 268 in 1965-66; in 1964-65, 231 such herds were reported. A total of 585 Brown Swiss herds were reported this year compared with 617 a year ago, and only 101 herds produced at or above the 12,500-pound level of production compared with 104 last year. Two less Milking Shorthorn herds were reported this year than last, and only 9 herds produced at or above the 10,500-pound level this year compared to 14 herds last year. All of these production averages reflect the actual yield of DHIA cows during a 12-month period.

It must be realized that the applicability of these DHIA herd statistics to individual herds will have the greatest meaning where local feeding systems and costs and milk markets are reasonably consistent with U.S. averages. Herds of the same breed having similar levels of milk yield may differ considerably

in production efficiency if a wide range exists in milk prices, feeding systems and costs, and labor and other costs.

OWNER-SAMPLER HERD SUMMARIES 1965-66

Summaries of Owner-Sampler herd statistics are shown in tables 10 through 15. A total of 598,133 cows in 19,172 herds averaged 11,472 pounds of milk and 425 pounds of butterfat in 1965-66. This is an increase of 70 pounds of milk and 2 pounds of butterfat over 1964-65. The increase in reporting Owner-Sampler records was encouraging this year. The herds reported numbered 763 more than a year ago, and complete herd reports totaled 741 more than a year ago.

Cow-year averages by States for all data reported are given in table 10. Similar averages based on complete reports are shown in table 11. Stratifications of Owner-Sampler herds by butterfat production, level of concentrates fed, and feed cost per hundredweight of milk are shown in tables 12, 13, and 14, respectively. Summaries by breed with stratifications by level of milk yield are shown in table 15.

TABLE 1. Summary of production of Standard DHIA and all other cows

Year ^{2/}	Herds Number	Standard DHIA cows				All other cows ^{1/}				Superiority of Std. DHIA cows		
		Cows per herd Number	Cows per herd Number	Percent of all cows ^{3/} Percent	Milk Pounds Percent	Fat Pounds Percent	Milk Pounds Percent	Fat Pounds Percent	Milk Pounds Percent	Fat Pounds Percent	Pounds	Pounds
1930	27,888	507,549	18.2	2.3	7,642	3.96	303	4,435	3.92	174	3,207	129
1940	27,948	676,141	24.2	2.9	8,133	4.07	331	4,519	3.96	179	3,614	152
1950	40,100	1,088,872	27.2	4.9	9,172	4.03	370	5,113	3.95	202	4,059	168
1960	41,293	1,746,752	42.3	9.8	10,561	4/3.87	4/409	6,606	3.74	247	3,955	162
1961	42,558	1,867,469	43.9	10.6	10,796	3.87	418	5/6,550	3/3.74	245	4,246	173
1962	42,034	1,958,355	46.6	11.3	11,032	3.86	426	6,739	3.72	251	4,293	175
1963	41,937	2,006,534	47.8	11.8	11,286	3.85	434	6,872	3.71	255	4,414	179
1964	40,670	2,010,144	49.4	12.2	11,685	3.83	447	6,990	3.69	258	4,695	189
1965	40,075	2,087,581	52.1	13.0	11,976	3.82	457	7,268	3.67	267	4,708	190
1966	38,879	2,058,592	52.9	13.3	12,127	3.81	462	7,459	3.67	274	4,668	188

1/ Derived using U.S. cow population and production figures, excluding heifers not fresh as estimated by the Statistical Reporting Service. Also includes cows on the Owner-Sampler and Weigh-a-Day-a-Month recordkeeping plans.

2/ The year for which the Standard January 1 enrollment is given.

3/ Calculated using U.S. calendar year cow numbers for year previous to stated year; for example: January 1, 1966 DHIA enrollment of 2,058,592 cows is 13.3 percent of the 1965 U.S. total of 15,477,000 cows.

4/ Average of 1958-59 and 1960-61 because testing year changed in 1961.

5/ Comparison began to be made between DHIA production for the testing year ending May 14 of the stated year and U.S. production for the previous calendar year.

TABLE 2.--A 10-year summary of DHIA cow-year averages for herds reporting complete information

Year	Herds Number	Cows per herd Number	Cows per herd Number	Milk Lb. Pct.	Fat Lb. Pct.	Fat Lb. Pct.	Conc. fed Cwt.	Succ. forage fed Cwt.	Dry forage fed Cwt.	Value of product conc. Cwt.	Cost of feed conc. Cwt.	Feed cost over feed cost \$	Income over feed cost \$
1956-57	27,133	863,275	31.8	9,621	3.92	377	30	66	39	448	88	183	265
1957-58	27,525	900,269	32.7	9,787	3.91	383	31	69	40	462	92	190	272
1958-59	27,796	902,074	32.5	10,042	3.89	391	33	75	40	475	93	195	280
1959-60 ^{1/}	23,220	795,892	34.3	10,045	3.89	391	33	76	40	479	93	196	283
1960-61 ^{1/}	18,644	689,710	37.0	10,048	3.88	390	32	78	39	485	94	198	287
1961-62	22,853	882,827	38.6	10,676	3.87	413	36	82	40	502	103	207	295
1962-63	27,093	1,089,290	40.2	10,983	3.85	423	39	92	40	501	113	222	279
1963-64	27,893	1,173,099	42.1	11,428	3.84	439	42	98	38	521	120	237	284
1964-65	28,237	1,229,676	43.5	11,744	3.82	449	44	102	38	539	127	244	295
1965-66	28,013	1,260,621	45.0	11,885	3.81	453	45	108	36	559	133	256	303

1/ gross percentage +41.5 +23.5 -2.8 +20.2 +50.0 +63.6 -7.7 +24.8 +45 +111 +73 +38 +14.3

2/ Average of 1958-59 and 1960-61 because of change in testing year.

3/ During this period, the hundredweight price of milk changed +4 cents gross and +0.9 percent.

TABLE 3.--Summary of 1965-66 Standard DHIA cow-year production, by States ^{1/}

State	Herd records	Cow-years ^{2/} Number	Cows per herd	Cow-year average production		
	Number		Number	Milk Pounds	Fat Percent	Fat Pounds
Alabama-----	260	22,867	88.0	9,366	3.9	367
Alaska-----	5	195	39.0	11,332	3.7	423
Arizona-----	112	18,881	168.6	12,725	3.6	459
Arkansas-----	59	2,663	45.1	11,137	3.6	403
California-----	1,826	336,345	184.2	13,060	3.8	495
Colorado-----	191	12,867	67.4	12,218	3.7	453
Connecticut-----	400	21,181	53.0	12,878	3.9	502
Delaware-----	91	4,391	48.3	11,865	3.8	455
Florida-----	105	16,803	160.0	9,400	4.0	378
Georgia-----	342	25,183	73.6	10,805	3.8	413
Hawaii-----	2	280	140.0	11,736	3.2	380
Idaho-----	451	19,292	42.8	11,621	3.9	448
Illinois-----	1,343	53,115	39.5	11,960	3.8	456
Indiana-----	1,043	39,629	38.0	12,063	3.9	466
Iowa-----	1,580	54,279	34.4	11,451	3.7	429
Kansas-----	722	31,630	43.8	11,858	3.7	442
Kentucky-----	377	15,578	41.3	10,640	3.8	406
Louisiana-----	44	3,834	87.1	8,598	3.9	334
Maine-----	393	17,243	43.9	12,111	4.0	479
Maryland-----	635	35,696	56.2	11,570	3.9	455
Massachusetts-----	438	19,832	45.3	12,334	4.0	489
Michigan-----	1,808	75,855	42.0	12,529	3.7	469
Minnesota-----	2,884	95,046	33.0	11,960	3.7	448
Mississippi-----	178	13,168	74.0	8,779	4.0	352
Missouri-----	366	16,998	46.4	11,533	3.8	440
Montana-----	48	2,468	51.4	12,161	3.6	434
Nebraska-----	334	14,239	42.6	11,337	3.7	422
Nevada-----	29	3,094	106.7	11,999	3.7	446
New Hampshire-----	256	11,724	45.8	12,061	4.0	480
New Jersey-----	419	23,567	56.2	12,701	3.8	485
New Mexico-----	24	3,655	152.3	12,266	3.6	443
New York-----	3,582	172,816	48.2	13,029	3.7	481
North Carolina-----	708	40,989	57.9	11,502	3.8	437
North Dakota-----	137	4,717	34.4	10,940	3.7	405
Ohio-----	2,094	83,308	39.8	12,189	3.8	465
Oklahoma-----	177	10,248	57.9	11,160	3.6	405
Oregon-----	356	22,596	63.5	11,168	4.1	457
Pennsylvania-----	4,329	164,242	37.9	12,223	3.9	477
Rhode Island-----	41	2,138	52.1	11,624	4.0	463
South Carolina-----	233	20,050	86.1	10,089	4.0	406
South Dakota-----	146	5,620	38.5	11,399	3.6	414
Tennessee-----	419	23,053	55.0	10,240	4.0	414
Texas-----	272	23,588	86.7	10,758	3.7	402
Utah-----	355	17,322	48.8	12,376	3.7	459
Vermont-----	823	40,370	49.1	11,689	3.9	458
Virginia-----	920	55,085	59.9	11,836	3.8	449
Washington-----	451	26,612	59.0	12,638	3.9	490
West Virginia-----	182	8,207	45.1	10,838	3.8	414
Wisconsin-----	2,875	119,049	41.4	12,092	3.8	458
Wyoming-----	21	932	44.4	11,699	3.6	420
Total or average-----	34,886	1,852,533	53.1	12,127	3.8	462

^{1/} Includes all production data reported.

^{2/} Rounded to the nearest cow-year.

TABLE 4.—Summary of 1965-66 Standard DHIA records, by States 1/

State	Herds Number	Body weight Lb. CwL.	Cow-years ^{2/} Number	Milk Lb.	Fat Pct.	Fat lb.	Days in milk Pct.	Concen- trates fed CwL.	Succ. forage fed CwL.	Dry forage fed CwL.	Value of product CwL.	Cost of concen- trates CwL.	Feed cost feed cost CwL.	Income over feed cost CwL.	Feed cost per cwt. milk CwL.
Alabama-----	257	11	22,608	9,332	3.9	366	83	49	54	16	530	158	247	283	2.65
Arkansas-----	59	11	22,663	11,337	3.6	403	84	44	53	38	514	133	226	288	2.03
Connecticut-----	393	12	20,926	12,900	3.9	503	85	53	148	29	721	185	334	387	2.59
Delaware-----	91	11	4,391	11,865	3.8	455	85	41	140	20	632	133	302	330	2.55
Florida-----	102	10	16,491	9,336	4.0	377	83	48	59	27	582	154	263	319	2.81
Georgia-----	341	11	25,135	10,808	3.8	414	84	46	93	17	639	153	271	368	2.51
Hawaii-----	2	13	280	11,736	3.2	380	78	51	20	88	905	238	498	407	4.24
Idaho-----	82	11	2,968	10,330	4.0	435	86	32	61	73	418	84	200	218	1.83
Illinois-----	1,316	12	51,975	11,951	3.8	456	84	42	83	38	484	103	201	283	1.68
Indiana-----	1,043	12	39,629	12,063	3.9	466	85	43	108	35	520	110	224	296	1.85
Iowa-----	1,579	12	54,242	11,449	3.7	429	84	47	112	37	432	112	205	227	1.79
Kansas-----	721	12	31,628	11,858	3.7	442	85	49	94	45	503	134	225	278	1.89
Kentucky-----	376	11	15,511	10,611	3.8	405	83	39	71	26	476	118	227	249	2.14
Louisiana-----	44	10	3,834	8,598	3.9	334	81	39	63	12	497	130	229	268	2.66
Maine-----	388	12	16,995	12,120	4.0	479	85	49	74	48	635	168	289	346	2.38
Maryland-----	564	12	31,143	11,626	3.9	459	84	46	113	25	579	141	295	302	2.53
Massachusetts-----	437	11	19,798	12,338	4.0	489	85	49	124	38	723	174	340	383	2.76
Michigan-----	1,796	12	74,065	12,534	3.7	469	86	44	102	47	518	100	206	312	1.65
Minnesota-----	2,855	12	94,040	11,966	3.7	448	85	44	109	45	432	94	191	241	1.59
Mississippi-----	178	10	13,168	8,779	4.0	352	83	37	89	11	452	117	194	258	2.21
Missouri-----	363	12	16,820	11,513	3.8	440	85	44	72	36	505	122	222	283	1.93
Montana-----	4	14	219	12,342	3.2	393	86	35	—	86	462	83	197	265	1.60
Nebraska-----	327	12	14,112	11,440	3.7	422	84	43	105	46	466	117	208	258	1.83
New Hampshire-----	256	11	11,724	12,061	4.0	480	85	46	113	42	654	156	320	334	2.66
New Jersey-----	419	13	23,567	12,701	3.8	485	85	45	168	32	669	152	351	318	2.76
New York-----	3,582	12	172,816	13,029	3.7	481	84	43	123	41	605	144	283	322	2.17
North Carolina-----	706	12	40,901	11,501	3.8	436	85	48	168	12	674	164	298	376	2.59
North Dakota-----	136	13	4,699	10,941	3.7	405	83	42	93	46	406	87	161	245	1.47
Ohio-----	2,093	12	83,284	12,191	3.8	465	86	44	118	38	540	114	239	301	1.96
Oklahoma-----	177	11	10,248	11,160	3.6	405	82	46	45	55	511	129	224	287	2.01
Pennsylvania-----	4,304	12	163,431	12,227	3.9	477	85	47	103	41	502	100	222	280	2.31
Rhode Island-----	41	12	2,338	11,224	4.0	463	85	48	131	34	744	173	364	380	3.13
Tennessee-----	6	11	325	9,621	4.5	430	82	27	52	53	502	147	285	311	2.33
Texas-----	270	11	23,347	10,739	3.7	401	83	48	60	39	541	140	252	289	2.34
Vermont-----	815	11	39,685	11,630	3.9	458	84	41	76	43	580	146	276	304	2.36
Virginia-----	914	12	54,714	11,855	3.8	450	85	46	148	19	642	158	296	346	2.49
West Virginia-----	182	12	8,207	10,838	3.8	414	85	39	97	29	529	124	250	279	2.30
Total or average	28,013	12	1,260,621	11,885	3.8	453	85	45	108	36	559	133	256	303	2.15
average 2/-----	34,886		1,852,533	12,127	3.8	462									

1/ Cow-year basis, based on complete individual herd reports.

2/ Rounded to the nearest cow-year.

Based on all data reported in Table 3.

TABLE 5.--Summary of 1965-66 Standard DHIA yearly herd averages, stratified by butterfat pounds 1/

Grouping Lb.	Herds Number	Body weight Cwt.	Cow-years Number	Milk Lb.	Fat Pct.	Fat Lb.	Days in milk	Concen- trates fed Cwt.	Succ. forage fed Cwt.	Dry forage fed Cwt.	Value of product \$	Cost of concen- trates \$	Feed cost \$	Income over feed cost \$	Feed cost per cwt. milk \$
Under 175	6	11	37.5	5,383	2.9	154	69	27	76	24	227	70	151	76	2.77
175-224	57	11	59.5	5,417	3.8	208	71	26	42	26	261	79	153	108	2.84
225-274	226	11	51.3	6,612	3.9	255	76	31	56	30	309	87	175	134	2.67
275-324	859	11	51.7	7,845	3.9	304	80	34	72	32	362	96	191	171	2.46
325-374	2,484	11	47.8	9,162	3.9	353	82	37	80	35	420	106	208	212	2.30
375-424	5,304	12	46.3	10,508	3.8	402	84	41	89	38	475	116	226	249	2.16
425-474	7,490	12	44.8	11,794	3.8	450	85	45	99	39	532	127	244	288	2.08
475-524	6,774	12	43.4	13,099	3.8	498	86	48	105	41	596	139	265	331	2.03
525-574	3,506	12	43.5	14,339	3.8	545	86	52	112	42	663	154	289	374	2.03
575-624	1,058	13	42.0	15,487	3.8	594	87	55	110	43	731	168	309	422	2.00
625-674	203	13	42.5	16,607	3.9	642	88	58	119	47	804	182	335	469	2.03
675-724	42	12	36.0	17,579	3.9	692	88	64	121	49	875	206	369	506	2.11
725-774	4	14	42.5	20,057	3.8	757	88	66	149	52	1,070	232	402	668	2.01
Total or average	28,013	12	45.0	11,956	3.8	456	85	45	98	39	545	130	249	296	2.11

1/ All groupings and the total or average line are on a herd basis.

TABLE 6.--Summary of 1965-66 Standard DHIA yearly herd averages, stratified by hundredweight concentrates fed 1/

Grouping Cwt.	Herds Number	Body weight Cwt.	Cow-years Number	Milk Lb.	Fat Pct.	Fat Lb.	Days in milk	Concen- trates fed Cwt.	Succ. forage fed Cwt.	Dry forage fed Cwt.	Value of product \$	Cost of concen- trates \$	Feed cost \$	Income over feed cost \$	Feed cost per cwt. milk \$
No Rept.	5	12	54.0	10,895	3.5	386	83	--	150	47	509	---	154	355	1.45
Under 5	2	11	144.7	10,681	4.5	478	87	2	95	36	553	212	300	253	2.92
05-14	32	11	49.1	8,045	4.0	321	82	12	85	41	348	53	158	190	1.94
15-24	503	11	43.4	8,593	4.1	353	82	21	70	39	390	63	165	225	2.00
25-34	4,139	11	45.7	9,941	4.0	400	84	31	89	37	460	88	200	260	2.07
35-44	9,282	12	45.6	11,482	3.9	443	85	40	99	39	524	114	233	291	2.07
45-54	8,713	12	44.7	12,650	3.8	475	85	49	103	40	574	141	265	309	2.12
55-64	3,957	12	43.6	13,405	3.7	498	86	59	98	40	610	169	291	319	2.19
65-74	1,127	12	44.3	13,962	3.7	515	86	68	93	41	639	197	316	323	2.28
75-84	211	12	46.5	14,266	3.7	524	86	78	91	38	660	225	337	323	2.40
85-UP	42	12	59.0	14,358	3.6	524	86	88	86	31	723	265	374	349	2.62
Total or average	28,013	12	45.0	11,956	3.8	456	85	45	98	39	545	130	249	296	2.11

1/ All groupings and the total or average line are on a herd basis.

TABLE 7.--Summary of 1965-66 Standard DHIA yearly herd averages, stratified by feed cost per hundredweight milk 1/

Grouping Cents	Herds Number	Body weight Cwt.	Cow-years Number	Milk Lb.	Fat Pct.	Fat Lb.	Days in milk	Concen- trates fed Cwt.	Succ. forage fed Cwt.	Dry forage fed Cwt.	Value of product \$	Cost of concen- trates \$	Feed cost \$	Income over feed cost \$	Feed cost per cwt. milk \$
Under 175	7,083	12	36.9	12,690	3.7	471	86	43	86	43	500	99	193	307	1.52
175-224	10,589	12	43.5	12,163	3.8	461	85	45	98	40	542	127	243	299	2.00
225-274	7,340	12	50.2	11,684	3.9	453	85	47	104	36	588	152	288	300	2.46
275-324	2,410	11	56.0	10,497	4.1	427	84	47	110	34	573	158	308	265	2.94
325-374	494	11	60.7	9,075	4.3	390	83	45	108	33	524	156	310	214	3.42
375-424	79	11	59.8	7,906	4.3	342	80	43	99	36	469	152	313	156	3.96
425-474	16	11	40.3	7,953	4.4	349	80	48	68	43	486	182	341	145	4.29
475-UP	1	11	90.1	5,301	4.9	260	72	32	158	4	342	112	256	86	4.83
Total or average	28,013	12	45.0	11,956	3.8	456	85	45	98	39	545	130	249	296	2.11

1/ All groupings and the total or average line are on a herd basis.

TABLE 8.--Summary of 1965-66 Standard DHIA yearly herd averages by breed, stratified by milk pounds $\frac{1}{2}$

Grouping	Lb.	Herd Number	Body weight	Cow-years	Milk Lb.	Fat Pct.	Days in milk	Concen- trates fed	Succ. forage fed	Dry forage fed	Value of product	Cost of concen- trates	Feed cost	Income over feed cost	Feed per cwt.	Feed cost per milk cwt.
AYRSHIRE																
Under 7,500	11	10	46.3	6,725	3.9	264	76	62	28	329	80	164	165	2.42		
7,500- 8,499	34	11	41.8	8,105	4.0	327	81	34	65	389	97	196	193	2.42		
8,500- 9,499	109	11	39.0	9,031	4.0	364	82	35	70	425	105	208	217	2.31		
9,500-10,499	122	11	37.9	9,966	4.1	404	83	39	78	486	118	227	259	2.28		
10,500-11,499	119	11	43.6	10,903	4.0	443	84	42	77	441	131	250	291	2.28		
11,500-12,499	67	11	46.5	11,968	4.0	479	84	46	95	39	587	144	266	321	2.23	
12,500-13,499	27	11	43.2	12,855	4.0	510	85	45	77	42	618	154	277	341	2.15	
13,500-Up	9	12	30.4	14,254	3.9	559	87	53	100	42	726	180	321	405	2.26	
Total or average	498	11	41.2	10,312	4.0	415	83	40	78	39	501	122	235	266	2.28	
GUERNSEY																
Under 5,500	13	10	57.5	4,898	4.7	231	73	23	71	284	71	163	121	3.33		
5,500- 6,499	49	10	66.2	6,126	4.8	291	80	30	65	28	341	87	178	2.91		
6,500- 7,499	176	10	46.0	7,054	4.7	335	83	32	71	31	370	91	183	2.60		
7,500- 8,499	381	10	44.9	8,041	4.8	386	84	34	71	33	433	99	196	2.44		
8,500- 9,499	592	10	44.5	9,021	4.8	433	85	38	73	36	484	108	213	2.37		
9,500-10,499	467	10	42.9	9,953	4.8	475	86	40	77	36	540	118	228	2.37		
10,500-11,499	255	11	41.1	10,899	4.7	514	87	43	76	37	581	128	239	342	2.29	
11,500-12,499	58	11	37.9	11,909	4.6	551	87	47	65	40	655	153	270	385	2.26	
12,500-13,499	21	11	46.8	12,815	4.4	559	87	48	67	42	652	148	264	388	2.06	
13,500-14,499	10	12	28.9	13,907	3.9	546	86	47	134	42	691	145	305	386	2.19	
14,500-Up	4	13	18.8	15,120	3.8	575	88	59	134	48	741	182	336	405	2.23	
Total or average	2,026	10	44.2	9,179	4.7	436	85	38	74	35	493	111	216	277	2.37	
HOLSTEIN																
Under 6,500	41	11	48.1	5,878	3.7	215	73	25	53	32	269	75	163	106	2.77	
6,500- 7,499	92	11	46.6	7,116	3.7	266	77	32	69	31	325	92	185	140	2.43	
7,500- 8,499	259	11	50.1	8,013	3.7	299	79	34	79	32	364	95	196	168	2.43	
8,500- 9,499	663	12	48.5	9,071	3.7	333	81	36	89	34	405	104	209	196	2.31	
9,500-10,499	1,457	12	47.7	10,012	3.7	370	83	39	94	37	441	109	218	223	2.16	
10,500-11,499	2,776	12	45.7	11,049	3.7	406	84	42	100	38	485	118	233	252	2.11	
11,500-12,499	4,195	12	45.5	12,018	3.7	441	85	45	105	40	528	126	246	282	2.05	
12,500-13,499	4,722	12	44.7	12,996	3.7	478	85	48	110	41	574	136	260	314	2.00	
13,500-14,499	3,854	12	43.9	13,974	3.7	514	86	50	110	42	622	145	276	346	1.97	
14,500-15,499	2,139	13	43.7	14,934	3.7	547	86	53	114	43	668	157	291	377	1.95	
15,500-16,499	831	13	43.0	15,907	3.7	581	87	56	109	43	724	169	308	416	1.94	
16,500-17,499	257	13	42.1	16,914	3.6	616	87	59	110	49	778	179	328	450	1.94	
17,500-18,499	67	13	43.9	17,876	3.6	647	88	61	110	48	827	189	346	481	1.93	
18,500-Up	23	13	41.8	19,071	3.5	674	89	63	110	50	851	194	335	516	1.75	
Total or average	21,376	12	45.1	12,684	3.7	466	85	47	106	40	562	134	257	305	2.04	

TABLE 8.--Summary of 1965-66 Standard DHIA yearly herd averages by breed, stratified by milk pounds ^{1/}--Continued

Grouping Lb.	Herds Number	Body Cwt.	Cow-years Number	Milk Lb.	Fat Pct.	Fat Lb.	Pct.	Days in milk	Concen- trates fed Cwt.	Succ. forage fed Cwt.	Dry forage fed Cwt.	Value of product \$	Cost of concen- trates \$	Feed cost feed cost \$	Income over feed cost \$	Feed cost per cwt. milk \$
JERSEY																
Under 5,500	30	9	49.4	4,982	5.0	250	75	25	34	24	256	69	135	121	2.70	
5,500- 6,499	108	9	50.1	6,108	5.1	309	81	30	44	26	334	90	167	167	2.74	
6,500- 7,499	263	9	53.8	7,039	5.1	361	83	33	50	27	384	96	179	205	2.54	
7,500- 8,499	475	9	47.3	8,028	5.1	411	85	36	55	29	441	106	192	249	2.40	
8,500- 9,499	403	9	47.1	8,973	5.1	461	86	39	60	32	502	118	213	289	2.37	
9,500-10,499	181	9	43.7	9,927	5.1	502	86	41	63	33	555	130	230	325	2.32	
10,500-11,499	57	9	45.8	10,863	4.9	536	87	45	65	33	628	152	261	367	2.40	
11,500-Up	30	10	47.4	12,130	4.5	537	87	46	89	41	635	148	273	362	2.25	
Total or average	1,547	9	48.1	8,319	5.1	423	84	37	56	30	460	111	201	259	2.43	
BROWN SWISS																
Under 7,500	17	13	22.6	6,470	4.1	266	74	31	49	43	267	76	165	102	2.55	
7,500- 8,499	34	12	32.2	8,027	4.0	322	81	35	90	42	326	90	198	128	2.46	
8,500- 9,499	67	12	31.2	9,086	4.1	373	83	38	71	45	391	98	202	189	2.23	
9,500-10,499	129	12	32.1	10,038	4.1	412	85	42	84	40	442	111	215	227	2.15	
10,500-11,499	122	13	34.5	11,006	4.1	453	85	43	91	43	489	116	227	262	2.06	
11,500-12,499	115	13	32.9	12,011	4.2	499	86	48	89	46	531	127	240	291	1.99	
12,500-13,499	68	13	32.6	12,893	4.1	527	86	47	102	43	605	133	257	348	1.99	
13,500-14,499	26	13	31.3	13,905	4.1	566	86	53	94	48	631	150	273	358	1.97	
14,500-Up	7	13	29.6	14,919	4.1	612	89	55	93	45	670	150	285	385	1.91	
Total or average	585	13	32.4	10,860	4.1	446	85	44	87	43	482	116	227	255	2.11	
MILKING SHORTHORN																
Under 6,500	6	12	44.6	5,988	3.7	221	72	31	18	34	241	82	156	85	2.61	
6,500- 7,499	18	12	22.5	7,024	3.7	262	78	32	50	40	250	71	149	101	2.12	
7,500- 8,499	23	12	23.1	7,934	3.8	301	79	33	41	36	291	79	155	136	1.95	
8,500- 9,499	31	12	26.1	9,010	3.7	334	82	35	46	37	350	87	170	180	1.88	
9,500-10,499	16	13	29.5	9,922	3.7	369	82	37	59	39	415	99	203	212	2.06	
10,500-11,499	6	12	30.0	10,871	3.7	398	84	36	80	36	421	81	168	253	1.54	
11,500-Up	3	12	24.3	12,048	3.6	431	88	40	112	46	524	133	240	284	2.02	
Total or average	103	12	26.6	8,585	3.7	319	80	34	50	38	332	85	169	163	1.99	
MIXED BREEDS																
Under 5,500	16	10	69.3	5,062	4.2	213	73	26	30	20	274	80	150	124	2.96	
5,500- 6,499	28	10	62.1	6,024	4.2	253	79	31	67	21	322	91	174	148	2.90	
6,500- 7,499	79	10	51.4	7,060	4.2	295	80	33	52	29	371	103	196	175	2.78	
7,500- 8,499	142	10	59.9	8,060	4.2	340	82	37	66	28	429	114	217	212	2.69	
8,500- 9,499	256	11	54.6	9,034	4.2	376	84	39	74	30	462	118	224	238	2.48	
9,500-10,499	374	11	48.7	10,017	4.1	406	85	42	76	36	501	126	239	262	2.39	
10,500-11,499	332	11	51.3	10,996	3.9	434	85	44	84	37	537	134	253	284	2.30	
11,500-12,499	276	11	43.1	11,959	3.9	465	86	47	88	39	573	143	266	307	2.22	
12,500-13,499	204	11	41.2	12,995	3.8	498	86	49	96	40	626	147	280	346	2.15	
13,500-14,499	105	11	38.5	13,949	3.8	531	87	52	92	41	654	159	289	365	2.07	
14,500-15,499	39	11	36.1	14,844	3.8	564	87	57	111	41	692	171	306	386	2.06	
15,500-Up	16	12	28.0	16,327	3.7	606	88	56	63	52	753	170	304	449	1.85	
Total or average	1,867	11	48.7	10,668	4.0	424	85	43	80	35	526	132	247	279	2.36	

1/ All groupings and the total or average line are on a herd basis.

TABLE 9.--Levels of milk production at or below which dairy profits are not expected in the United States

Breed	Milk level Pounds	Herds that do not exceed milk level	
		Number	Percent
Ayrshire	8,105	45	9.0
Guernsey	6,126	62	3.1
Holstein	9,071	1,055	4.9
Jersey	4,982	30	1.9
Brown Swiss	9,086	118	20.2
Milking Shorthorn 1/	7,934	47	1/45.6

1/ Only 103 Milking Shorthorn herds represented.

TABLE 10.--Summary of 1965-66 Owner-Sampler cow-year production, by States ^{1/}

State	Herd records	Cow-year ^{2/}	Cows per herd	Cow-year average production		
	Number	Number	Number	Pounds	Percent	Pounds
Alabama-----	6	371	61.8	11,003	3.5	387
Alaska-----	3	36	12.0	9,735	3.6	352
Arizona-----	2	130	65.0	12,343	3.7	452
Arkansas-----	27	1,110	41.1	10,043	3.7	370
California-----	2	336	168.0	11,168	4.3	475
Colorado-----	14	665	47.5	10,793	3.7	399
Connecticut-----	70	2,805	40.1	12,131	3.8	467
Delaware-----	13	403	31.0	10,183	4.1	417
Georgia-----	3	227	75.7	12,704	3.5	445
Idaho-----	14	273	19.5	11,110	3.9	435
Illinois-----	312	9,956	31.9	11,559	3.7	427
Indiana-----	86	2,571	29.9	12,067	3.8	453
Iowa-----	837	20,782	24.8	10,851	3.7	399
Kansas-----	89	2,743	30.8	11,306	3.7	417
Kentucky-----	30	1,001	33.4	10,555	3.8	397
Louisiana-----	4	232	58.0	9,664	3.5	342
Maine-----	88	3,243	36.9	11,693	3.9	452
Maryland-----	59	2,461	41.7	11,201	3.9	434
Massachusetts-----	69	2,316	33.6	11,572	3.9	449
Michigan-----	1,400	43,918	31.4	12,147	3.7	450
Minnesota-----	1,466	39,139	26.7	11,185	3.7	411
Mississippi-----	1	73	73.0	5,192	4.8	247
Missouri-----	25	808	32.3	11,420	3.8	431
Montana-----	36	2,121	58.9	11,337	3.7	416
Nebraska-----	57	1,792	31.4	10,703	3.5	378
Nevada-----	1	1,149	1149.0	16,602	3.3	543
New Hampshire-----	44	1,629	37.0	10,659	3.9	420
New Jersey-----	37	1,786	48.3	11,962	3.8	451
New Mexico-----	3	1,384	461.3	12,309	3.5	428
New York-----	2,100	77,618	37.0	12,183	3.7	445
North Carolina-----	36	1,387	38.5	10,727	3.8	407
North Dakota-----	21	536	25.5	9,185	3.7	344
Ohio-----	523	14,704	28.1	11,570	3.7	432
Oklahoma-----	25	1,044	41.8	11,499	3.6	410
Oregon-----	28	914	32.6	9,552	4.6	436
Pennsylvania-----	1,160	33,920	29.2	11,410	3.8	438
Rhode Island-----	2	22	11.0	10,145	3.7	375
South Carolina-----	1	46	46.0	8,450	4.2	356
South Dakota-----	54	1,894	35.1	10,723	3.5	379
Tennessee-----	3	131	43.7	9,279	3.9	365
Texas-----	12	683	56.9	10,320	3.8	394
Utah-----	24	697	29.0	12,323	3.7	456
Vermont-----	249	9,179	36.9	10,541	4.0	422
Virginia-----	56	1,934	34.5	12,146	3.7	449
Washington-----	27	774	28.7	11,537	3.9	450
West Virginia-----	20	666	33.3	10,147	4.0	409
Wisconsin-----	10,024	306,175	30.5	11,308	3.7	419
Wyoming-----	9	352	39.1	10,055	3.5	351
Total or average-----	19,172	598,133	31.2	11,472	3.7	425

1/ Includes all production data reported.

2/ Rounded to the nearest cow-year.

TABLE 11.--Summary of 1965-66 Owner-Sampler DHIA records, by States

$\frac{1}{2}$ / Cow-year basis, based on complete individual herd reports only.
 $\frac{1}{2}$ / Based on all data recorded in Table 9.

TABLE 12.--Summary of 1965-66 Owner-Sampler DHIA yearly herd averages, stratified by butterfat pounds $\frac{1}{L}$

Grouping Lb.	Herds Number	Body weight Cwt.	Body weight Cwt.	Cow-years Number	Milk Lb.	Fat Lb.	Fat Pct.	Days in milk Cwt.	Concen- trates fed Cwt.	Succ. forage fed Cwt.	Dry forage fed Cwt.	Value of product \$	Cost of concen- trates \$	Feed cost over feed cost \$	Income over feed cost \$	Feed cost per cwt. milk \$
Under 225	9	11	18.7	5.047	4.3	213	74	19	36	45	206	53	134	72	2.73	
225-274	91	11	26.3	6.780	3.7	254	76	28	48	40	263	74	153	110	2.27	
275-324	364	11	28.7	8.195	3.7	304	80	32	66	41	322	83	175	147	2.15	
325-374	1,002	11	30.4	9.498	3.7	354	82	36	77	42	380	96	195	185	2.07	
375-424	1,863	12	31.9	10.755	3.7	401	83	40	85	44	444	109	217	227	2.03	
425-474	1,990	12	32.1	12.030	3.7	448	84	44	89	44	510	125	241	269	2.01	
475-524	1,317	12	33.5	13.293	3.7	496	85	48	94	44	580	141	265	315	2.00	
525-574	379	12	33.5	14.468	3.8	543	86	51	94	45	658	159	287	371	1.99	
575-624	67	12	29.6	15.440	3.8	591	86	54	96	46	713	173	300	413	1.94	
625-674	10	12	26.5	16.444	3.9	643	89	55	122	48	800	184	471	2.00	2.00	
675-Up	5	12	22.1	16.738	4.5	741	89	59	76	46	742	172	280	462	1.68	
Total or average	7,096	12	31.7	11.473	3.7	428	83	42	86	44	484	119	231	253	2.03	

$\frac{1}{L}$ / All groupings and the total or average line are on a herd basis.

TABLE 13.--Summary of 1965-66 Owner-Sampler DHIA yearly herd averages, stratified by hundredweight concentrates fed $\frac{1}{L}$

Grouping Cwt.	Herds Number	Body weight Cwt.	Body weight Cwt.	Cow-years Number	Milk Lb.	Fat Lb.	Fat Pct.	Days in milk Cwt.	Concen- trates fed Cwt.	Succ. forage fed Cwt.	Dry forage fed Cwt.	Value of product \$	Cost of concen- trates \$	Feed cost over feed cost \$	Income over feed cost \$	Feed cost per cwt. milk \$
No Rept.	4	12	20.5	9,017	3.7	333	84	--	83	69	419	419	--	171	248	1.88
Under 5	3	10	34.8	10,109	4.0	405	2	67	71	477	7	158	319	319	1.56	
5-14	13	11	26.7	8,735	3.7	324	83	12	100	46	340	33	138	202	1.56	
15-24	255	11	30.3	8,810	3.8	341	81	21	72	44	367	61	161	206	1.86	
25-34	1,477	11	33.0	10,191	3.8	388	83	31	87	44	438	89	201	237	2.00	
35-44	2,590	12	32.7	11,392	3.7	425	83	40	90	44	482	114	227	255	2.02	
45-54	1,865	12	30.4	12,251	3.7	452	84	49	86	44	513	136	249	264	2.05	
55-64	689	12	29.8	12,934	3.7	475	84	59	77	44	541	162	271	270	2.11	
65-74	161	12	28.1	13,221	3.7	486	85	68	70	43	553	187	292	261	2.24	
75-84	34	12	26.2	13,790	3.6	500	85	78	56	51	547	202	305	242	2.24	
85-Up	5	12	35.3	12,845	3.7	472	86	90	63	36	618	269	361	257	2.82	
Total or average	7,096	12	31.7	11,473	3.7	428	83	42	86	44	484	119	231	253	2.03	

$\frac{1}{L}$ / All groupings and the total or average line are on a herd basis.

TABLE 14.--Summary of 1965-66 Owner-Sampler DHIA yearly herd averages, stratified by feed cost per hundredweight milk $\frac{1}{L}$

Grouping Cents	Herds Number	Body weight Cwt.	Body weight Cwt.	Cow-years Number	Milk Lb.	Fat Lb.	Fat Pct.	Days in milk Cwt.	Concen- trates fed Cwt.	Succ. forage fed Cwt.	Dry forage fed Cwt.	Value of product \$	Cost of concen- trates \$	Feed cost over feed cost \$	Income over feed cost \$	Feed cost per cwt. milk \$
Under 175	2,066	12	27.4	11,703	3.7	428	83	41	72	44	427	92	178	249	1.52	
175-224	2,946	12	33.2	11,689	3.7	432	84	42	91	44	496	121	233	263	1.99	
225-274	1,596	12	33.8	11,768	3.8	430	83	44	91	43	532	143	276	256	2.45	
275-324	402	11	33.2	10,172	3.9	401	82	45	92	44	517	150	298	219	2.94	
325-374	67	11	36.5	8,551	4.2	359	82	42	98	43	452	144	294	158	3.44	
375-424	16	10	29.6	8,143	4.4	355	82	41	99	46	447	148	313	134	3.85	
425-474	3	11	39.5	7,859	4.2	327	67	58	51	33	472	230	346	126	4.39	
Total or average	7,096	12	31.7	11,473	3.7	428	83	42	86	44	484	119	231	253	2.03	

$\frac{1}{L}$ / All groupings and the total or average line are on a herd basis.

$\frac{1}{L}$ / All groupings and the total or average line are on a herd basis.

TABLE 15.--Summary of 1965-66 Owner-Sampler DHIA yearly herd averages by breed, stratified by milk pounds 1/

Grouping Lb.	Herds Number	Body Cwt.	Cow-years Number	Milk Lb.	Fat Pct.	Fat Lb.	Days in milk Pct.	Concen- trates fed Cwt.	Succ. forage fed Cwt.	Dry forage fed Cwt.	Value of product \$	Cost of concen- trates \$	Feed cost \$	Income over feed cost \$	Feed cost per cwt. milk \$
AYRSHIRE															
Under 7,500	5	10	28.3	6,377	4.2	263	75	31	78	25	301	90	178	123	2.79
7,500-8,499	8	10	22.1	7,893	4.0	314	79	34	44	36	339	112	193	146	2.44
8,500-9,499	14	11	26.7	9,026	4.0	361	81	36	39	45	385	110	194	191	2.15
9,500-10,499	26	11	28.8	9,961	4.0	400	83	36	57	47	467	119	224	243	2.25
10,500-11,499	11	11	37.0	11,111	3.9	435	83	39	110	30	528	133	250	278	2.25
11,500-Up	6	11	36.0	12,485	3.9	478	85	40	120	42	555	116	242	313	1.94
Total or average	70	11	29.5	9,679	4.0	385	82	36	67	41	441	116	217	224	2.26
GUERNSEY															
Under 6,500	11	10	20.3	5,830	4.6	272	77	28	52	41	259	65	145	113	2.48
6,500-7,499	37	10	27.8	7,039	4.8	335	81	30	56	40	341	80	169	172	2.40
7,500-8,499	94	10	26.6	8,043	4.7	378	83	34	60	39	369	87	176	193	2.19
8,500-9,499	91	10	28.9	9,039	4.7	422	85	38	63	41	434	104	201	233	2.23
9,500-10,499	51	10	32.6	9,873	4.4	438	85	36	71	34	469	108	206	263	2.09
10,500-11,499	19	11	32.3	10,895	4.2	463	85	41	70	40	514	114	215	299	1.98
Total or average	322	10	28.7	8,861	4.6	404	84	36	64	39	419	99	194	225	2.21
HOLSTEIN															
Under 6,500	15	11	19.9	5,990	3.7	224	75	25	45	46	221	67	157	64	2.66
6,500-7,499	47	11	28.2	7,093	3.7	260	77	27	57	38	273	69	149	124	2.10
7,500-8,499	133	11	29.5	8,080	3.7	295	79	31	68	43	312	81	170	142	2.10
8,500-9,499	316	12	29.6	9,070	3.6	331	81	34	75	42	350	88	183	167	2.02
9,500-10,499	673	12	31.4	10,042	3.7	367	82	37	84	43	403	99	205	198	2.04
10,500-11,499	1,107	12	32.9	11,028	3.6	401	83	40	92	43	445	108	216	229	1.96
11,500-12,499	1,269	12	32.6	11,990	3.6	436	84	43	92	45	492	120	234	258	1.95
12,500-13,499	1,186	12	33.3	12,982	3.6	473	85	47	95	45	547	134	254	293	1.96
13,500-14,499	623	12	33.7	13,942	3.6	507	85	49	95	45	602	146	270	332	1.94
14,500-15,499	241	12	33.1	14,880	3.6	540	85	52	95	45	649	158	286	363	1.93
15,500-16,499	67	13	33.8	15,860	3.6	572	86	53	91	48	692	161	287	405	1.81
16,500-Up	21	12	28.1	17,218	3.7	632	88	59	90	51	771	194	328	443	1.90
Total or average	5,698	12	32.5	11,871	3.6	432	83	43	90	44	491	120	233	258	1.97
JERSEY															
Under 5,500	8	9	24.1	4,670	5.4	252	75	25	18	32	231	60	111	120	2.40
5,500-6,499	15	9	28.7	6,027	5.2	313	80	29	62	31	307	81	162	145	2.69
6,500-7,499	39	9	28.0	7,070	5.1	362	83	32	43	36	357	92	173	184	2.44
7,500-8,499	52	9	30.4	7,998	5.0	401	84	34	42	36	428	107	193	235	2.41
8,500-9,499	51	9	29.6	8,909	5.0	445	85	38	51	38	481	124	218	263	2.45
9,500-10,499	33	10	31.6	9,876	4.6	459	85	39	42	44	527	133	232	295	2.35
10,500-11,499	8	10	31.5	11,035	4.7	520	86	45	47	38	568	141	237	331	2.15
11,500-Up	9	11	26.4	12,495	4.2	520	86	50	65	41	627	172	294	333	2.36
Total or average	215	9	29.5	8,374	4.9	411	84	36	46	38	441	113	202	239	2.42
BROWN SWISS															
Under 7,500	7	11	21.0	6,960	4.0	277	79	30	51	52	273	70	163	111	2.32
7,500-8,499	10	12	22.5	7,928	3.9	312	80	30	57	43	313	81	176	137	2.21
8,500-9,499	14	12	27.4	8,908	4.0	360	83	37	76	46	351	86	186	165	2.10
9,500-10,499	16	12	24.0	10,045	4.1	409	84	41	62	50	394	101	190	204	1.90
10,500-11,499	16	12	17.6	10,924	4.0	438	84	41	56	53	439	114	210	229	1.92
11,500-12,499	14	12	27.6	11,920	3.9	464	85	42	65	45	505	117	220	285	1.85
12,500-Up	6	12	27.8	13,003	3.9	502	86	49	89	48	506	119	233	274	1.80
Total or average	83	12	23.8	10,038	4.0	400	83	39	64	48	402	100	198	204	1.99
MILKING SHORTHORN															
7,500-8,499	4	12	7.0	8,202	3.8	313	80	43	49	42	330	108	191	139	2.33
8,500-9,499	3	12	27.6	9,321	4.0	377	83	27	60	44	363	77	163	200	1.75
Total or average	10	12	19.1	9,329	3.8	355	82	37	73	41	349	94	178	171	1.61
MIXED BREEDS															
Under 6,500	9	10	24.4	5,721	4.6	262	77	26	54	31	278	73	153	125	2.67
6,500-7,499	26	11	27.8	7,130	4.2	300	80	31	58	37	327	88	185	142	2.59
7,500-8,499	55	11	25.6	8,061	4.1	330	82	33	54	37	349	93	188	161	2.33
8,500-9,499	90	11	28.1	9,043	4.0	365	82	38	63	44	412	112	222	190	2.46
9,500-10,499	126	11	26.0	10,018	3.9	392	84	40	75	45	459	117	234	225	2.33
10,500-11,499	137	11	29.6	11,040	3.9	427	84	44	77	44	501	131	251	250	2.27
11,500-12,499	106	11	29.8	11,966	3.9	461	84	46	88	46	551	139	271	280	2.27
12,500-13,499	90	11	29.6	12,919	3.8	485	85	50	90	43	582	149	280	302	2.17
13,500-14,499	52	11	29.5	13,935	3.8	524	85	55	83	47	627	165	298	329	2.14
14,500-15,499	6	11	22.9	14,941	3.8	561	85	58	92	38	672	184	318	354	2.13
Total or average	697	11	28.3	10,781	3.9	419	84	43	76	44	489	127	246	243	2.30

1/ All groupings and the total or average line are on a herd basis.

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